NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT Organization Information Version 3.1

1. Date?		_			version 5.1					
2. Organization?										
2a. Organizatio	n type? (Che Investor Owned	eck the one FedAgcy	that applies State/ Provnce	s best) Muni	G&T Coop	Rural Coop	IPP	ISO/ Region	Other	
2b. Organizatio		Check all		Regional SecCoord	Distrbtn	Other				
2c. Organization	System	licate the an NonNucl. GenCpcty	Nuclear		f the following	g covered by	this report)		
3. NERC Region	?		•							
4a. Person in cha (Y2K ready me has been deter continued use i	eans a syste mined to be	m or applica suitable for	ation	program?	Name Title Phone FAX # E-mail					
4b. If you wish to reponse into the and enter the reconfirmation shapes	ne NERC con name and E-	mposite data mail addres	abase, ched	ck this box	> Name E-mail					
5a. Contact perso	on for nuclea	ar generatioi (Optional)	n facilities?		Name Title Dept. Phone # FAX # E-mail					
5b. Contact perso	on for non-n	uclear gene	ration facilit	ies?	Name Title Dept. Phone # FAX # E-mail					
6. Contact persor	n for energy	manageme	nt systems?	,	Name Title Dept. Phone # FAX # E-mail					
7. Contact persor	n for telecom	nmunication	s systems?		Name Title Dept. Phone #					

Org. Info

	FAX #	
	E-mail	
9. Contact parcen for substation central system	Name	
8. Contact person for substation control, system		
protection and distribution systems?	Title	
	Dept.	
	Phone #	
	FAX#	
	E-mail	
Contact person for distributions systems?	Name	
	Title	
	Dept.	
	Phone #	
	FAX#	
	E-mail	
40. Octobrilla and Carlo discountification of the second	News	
10. Contact person for business information systems?	Name	
	Title	
	Dept.	
	Phone #	
	FAX#	_
	E-mail	

11. Any comments? Enter below:

NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT General Y2K Planning

Version 3.1

1. Date?					
2. Do you have a written plan for Y2K readiness' been determined to be suitable for continued		eans a system	or application has	;	
	Yes In process Unwritten No				
2a. If No , does your organization intend to pre	epare one?		Yes When ?	No]
3a. Does your organization's Y2K Program report	rt <u>directly</u> to a VP or high	er?	Yes	No]
3b. Does your Board of Directors or governing be (at least quarterly) reports on the status of yo	•		Yes	No	
4. Please identify the present overall status of Y	2K Program for your elec	etric systems:			
Inventory Assessment Remediation/Testing	Est. Completion Date		% Comple	ete	
Does your Y2K analysis take into account a pubreakdown in the supply chain and/or transpofuel, water, chemicals, material supplies, etc?	rtation of	Yes	No		
6a. What is the status of your Y2K operating cor	ntingency preparedness?				
		laven't started	Started looking	Have plan	Have teste & drilled pl
Power system Y2K studi					
Y2K blackstart/restoratio Safe shutdown of power	·				
Y2K special operating pr					
Y2k personnel staffing ar					
*Scenario analysis, capa	city shortages/overages				
6b. Results of 6a above available to others?		Yes	No		
7. When do you expect your organization to be Y (for mission critical facilities that are to meet operating requirements into the second secon	needed	Date			
8. List the greatest obstacles your organization for	aces in achieving Y2K re	adiness by De	cember 31, 1999?		_
					-
Please detail any Y2K Readiness concerns th and for which you lack external support.	at you feel are beyond yo	our organization	n's control		
					_

General Planning

10. Any comments? Enter below:		
To. Any comments: Enter below.		
Device/Component/system name:		
Test description:		
Test results:		
Comments:		

d an

NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT

Nuclear Generation Facilities

Version 3.1

Note: This section of the report is optional when responding for the NERC Y2K Readiness Assessment.

Any responses received by NERC will be forwarded to NEI, which is facilitating assessment of nuclear plants.

Date	o ladinating deceasing it of hadical plants.
	0/ Complete
2. Are the following (mission-critical* facilities) Y2K ready? Reactor control systems Safe shutdown systems Fuel handling and storage systems Turbine/generator systems Balance of plant - water and steam systems Environmental systems (including emission controls/mon Electrical systems, power supplies, switchyard under pla	· · · · · · · · · · · · · · · · · · ·
Data acquisition and communications systems Voice communications systems Unit and station protection systems/relays (% Complete - Report as amount of work completed in e of work to do in that phase. If no remediation and testir inventoried and assessed, then show remediation and te	and testing and testing and testing and in the string and testing and testing
3. What percentage of your mission-critical* systems in nuclear generation facilities do you expect to be Y2K ready** by the end of *Mission-critical means that misoperation of the referenced device software could directly contribute toward the loss of a 50 MW or larger generating resource, the loss of a transmission facility, or interruption of system load. ** Y2K ready means a system or application has been determined to the transmission facility to the transmission facility.	2Q99 3Q99 4Q99 e or
suitable for continued use into the year 2000.4. Have you completed an integrated test of the facilities listed in 2 al	bove? N/A Yes No
5. Have you completed contingency planning for components/system	ns in 2 above? Yes No
How will your organization measure Y2K readiness? for components/systems in 2 above? (Check all that apply.)	Component test Simulations Outside testing Vendor verification Other
7. How will communications facilities leased by your organization be Check this box if you are providing a single answer for your organization.	
If your organization has found a unique / creative solution (a good nuclear generating facility problem, please first describe the problem.)	· · · · · · · · · · · · · · · · · · ·
Have you encountered any Y2K nuclear generation facility probles and would like to collaborate with others in resolving? If so, please.	

NuclearGen

10. Any comments? Enter below:	
Device/Component/system name:	
Test description:	
Test results:	
Test festilis.	
Comments:	

NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT

Non-Nuclear Generation Facilities

Version 3.1

1. Date
2. Are the following (mission-critical* facilities) Y2K ready? W Complete N/A I A R
Fuel supply and handling systems Boiler control and feed systems Turbine/generator systems Balance of plant water and steam systems Water treatment systems Environmental systems (including ash, emissions, waste) Electrical systems, power supplies, switchyard under plant control Data acquisition and communications systems Voice communications systems Unit and station protection systems/relays N/A) Not applical N/A) Not app
(% Complete - Report as amount of work completed in each phase divided by total amount of work to do in that phase. If no remediation and testing is required in an area that was inventoried and assessed, then show remediation and testing as 100% complete.)
3. What percentage of your mission-critical* systems in generation facilities do you expect to be Y2K ready** by the end of:? *Mission-critical means that misoperation of the referenced device or software could directly contribute toward the loss of a 50 MW or larger generating resource, the loss of a transmission facility, or interruption of system load.
** Y2K ready means a system or application has been determined to be suitable for continued use into the year 2000.
4. Have you completed necessary integrated system (multi-component) N/A Yes No testing of the facilities listed in 2 above?
5. Have you completed contingency planning for components/systems in 2 above? Yes No
6. How will your organization measure Y2K readiness for components/systems in 2 above? (Check all that apply.) Simulations Outside testing Vendor verification Other
7. How will communications facilities leased by your organization be determined to be Y2K ready? Check this box if you are providing a single answer for your organization under telecommunications.
8. If your organization has found a unique / creative solution (a good idea we want to share) to a Y2K non-nuclear generating facility problem, please first describe the problem and then the solution to that problem.
 Have you encountered any Y2K non-nuclear generation facility problem(s) that are particularly difficult to resolve and would like to collaborate with others in resolving? If so, please describe:

Non-Nuclear Gen

10. Any comments? Enter below:		
D : 10		
Device/Component/system name:		
Test description:		
_		
Test results:		
Comments:		

le

NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT

Energy Management Systems, SCADA Version 3.1

1. Date	
2. Are the following (mission-critical* facilities) Y2K ready?	% Complete N/A I) A) R) N/A) Not applicable
Control center computer systems Data acquisition subsystems UPS systems Voice and data communications systems Remote terminal units (RTUs) Metering equipment systems (tie lines) Backup control center (% Complete - Report as amount of work completed in of work to do in that phase. If no remediation and test inventoried and assessed, then show remediation and	I) Inventory A) Assessment R) Remediation and testing each phase divided by total amount ing is required in an area that was
3. What percentage of your mission-critical* EMS/SCADA facilities do you expect to be Y2K Ready** by the end of:? *Mission-critical means that misoperation of the referenced devisoftware could directly contribute toward the loss of a 50 MW of larger generating resource, the loss of a transmission facility, of interruption of system load.	2Q99 3Q99 4Q99 ce or
** Y2K ready means a system or application has been determine suitable for continued use into the year 2000. 4. Have you completed necessary integrated system (multi-compo	
testing of the facilities listed in 2 above?	
5. Have you completed contingency planning for components/syste6. How will your organization establish Y2K readiness? for components/systems in 2 above? (Check all that apply.)	Component test Simulations Outside testing Vendor verification Other
How will communications facilities leased by your organization be Check this box if you are providing a single answer for your organization.	
If your organization has found a unique / creative solution (a goo EMS/SCADA problem, please first describe the problem and the	
9. Have you encountered any Y2K EMS/SCADA problem(s) that a and would like to collaborate with others in resolving? If so, ple	

10. Any comments? Enter below:

EMS_SCADA

Device/Component/system name:		
Device/Component/system name: Test description:		
Test results:		
Comments:		

NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT

Telecommunications Systems

Version 3.1

1. Date					
2. Are the	following mission-critical* facilities Y2K ready?	NI/AX	% Complete	D)	
	Telephone switches and key systems?	N/A)	l) A)	R)	N/A) Not applicab
	Microwave systems?				, , , , , , , , , , , , , , , , , , , ,
	Mobile radio systems?				I) Inventory
	SCADA radio?		 		.,
	Data WAN/LANs including networking equipment?		 		A) Assessment
	Modems?				7.17.1000001110111
	Network equipment?				R) Remediation
	Fiber systems?		 		and testing
	Leased lines?				g
	Power line carrier systems?				
	Satellite systems?		 		
	Telecommunications management systems?				
	(% Complete - Report as amount of work completed in of work to do in that phase. If no remediation and test inventoried and assessed, then show remediation and	ing is required in an	area that was		
•	ercentage of your mission-critical* telecommunications fa expect to be Y2K ready** by the end of:?	cilities 3Q98	4Q98	1Q	99
softwai larger (n-critical means that misoperation of the referenced device re could directly contribute toward the loss of a 50 MW of generating resource, the loss of a transmission facility, or potion of system load.	r	3Q99	4Q	99
	Ready means a system or application has been determin ple for continued use into the year 2000.	ed to be			
	ou completed necessary integrated system (multi-compon of the facilities listed in 2 above?	ent) N/A	Yes		No
5. Have yo	ou completed contingency planning for components/syste	ms in 2 above?	Yes	No	
	ll your organization establish Y2K readiness? ponents/systems in 2 above? (Check all that apply.)	Component test Simulations Outside testing Vendor verificatio Other	n		
	Il communications facilities leased by your organization be his box if you are providing a single answer for your organ			i.	
•	organization has found a unique / creative solution (a good munications facility problem, please first describe the prob		,	oroblem.	

9. Have you encountered any Y2K telecommunications problem(s) that are particularly difficult to resolve and you would like to collaborate with others in resolving? If so, please describe:

Telecom

10. Any comments? Enter below:		
·		
Device/Component/system name:		
Test description:		
•		
-		
Test results:		
-		
-		
Comments:		
-		
-		
-		

le

NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT

Substation Controls, System Protection and Distribution Version 3.1

1. Date	Volument S. I
2. Are the following mission-critical* facilities Y2K ready?	
	% Completion
Transmission and/or distribution facilities internal to substations	
Microprocessor relays?	N/A) Not applicab
Special protection schemes (gen. reject'n., line trip.	
Load shedding controls and underfrequency relays	I) Inventory
Circuit breaker and switching device controls	A) A
LTC and regulator controls - inside the substation	A) Assessment
Recloser controls - inside the substation	D) Dome disting
Digital fault recorders / digital transient recorders?	R) Remediation
Terminal equipment for telecommunications facilitie	s? and testing
Substation service controls (incl. battery chargers)	
Disturbance analyzers?	
Distribution facilities outside the substation	
Transfer/recloser controls - outside the substation	
Sectionalizer controls - outside the substation?	
Capacitor controls - outside the substation?	
Voltage regulators - outside the substation? Data gathering equipment - outside the substation?	
Data gathering equipment - outside the substation?	
(% Complete - Report as amount of work complete	d in each phase divided by total amount
of work to do in that phase. If no remediation and	•
inventoried and assessed, then show remediation a	
involved and deceded, then enew termedation of	and todaing do 10070 complete.
3. What percentage of your mission-critical* substation, system	protection 3Q98 4Q98 1Q99
and distribution controls do you expect to be Y2K ready** by t	he end of:?
*Mission-critical means that misoperation of the referenced of	levice or 2Q99 3Q99 4Q99
software could directly contribute toward the loss of a 50 M	W or
larger generating resource, the loss of a transmission facilit	y, or
interruption of system load.	
** Y2K Ready means a system or application has been deter	mined to be
suitable for continued use into the year 2000.	
A bloom and a solution of the solution of the Artist Property of the	NA CONTRACTOR NA
4. Have you completed an integrated test of the facilities listed in	n 2 above? N/A Yes No
E Hannan and the Lands are a second as the Community of the	orteons in Order and Order
5. Have you completed contingency planning for components/sy	ystems in 2 above? Yes No
0.11	0
6. How will your organization establish Y2K readiness?	Component test
for components/systems in 2 above? (Check all that apply.)	Simulations
	Outside testing
	Vendor verification
	Other
7. How will communications facilities leaded by your arganization	n ha data minad to ha VOV road o
7. How will communications facilities leased by your organizatio	the state of the s
Check this box if you are providing a single answer for your of	rganization under telecommunications.
8. If your organization has found a unique / creative solution(a g	and idea we want to share) to a YOK
substation controls, system protection or distribution problem	Delease first describe the problem
and then the solution to that problem.	n produce mot decembe the problem
and anon the condition to that problem.	

SubstnCtrls,Protect,Dist

 Have you encountered any Y2K substation controls, system protection or distribution problem(s) that are particularly difficult to resolve and you would like to collaborate with other in resolving. If so, please describe: 				
10. Any comments? Enter below:				
Device/Component/system name:				
Test description:				
Test results:				
Tost rosuits.				
Comments:				

le

NERC Y2K ELECTRIC SYSTEM READINESS ASSESSMENT IT Business Information Systems

Version 3.1

This Section of the Assessment report will be analyzed by the Edison Electric Institute in support of the industry report to the Department of Energy.

Organization Information					
1. Date?					
2. Are the following IT Business Systems Y2K Rready*?		<u>% (</u> N/A) I)	Complete A)	R)	
, ,	., General Ledger, lget, Cost Reporting) ssets			N/A)	Not applicable) Inventory A) Assessment R) Remediation
Fixed Asset Systems Security Systems (e.g., System and Facility Acces Facility Operating Systems (e.g., HVAC. Lighting	The state of the s				and Testing
(If you don't have to do remediation and testing, re	eport item 100% complete.)				
3. What percentage of the systems listed in question 2 do you expect to be Y2K Ready** by the end of:? Output Description:		3Q98 2Q99	4Q98 3Q99	1Q99 4Q99	
What percentage of the supporting infrastructure (e.g., Dat CPUs, Systems Software LAN/WAN) for the systems liste do you expect to be Y2K Ready* by the end of:?		3Q98 2Q99	4Q98 3Q99	1Q99 4Q99	
Have you completed necessary integrated system (multi-creating of the facilities listed in 2 above?	omponent) N/A	Д Ү	es	No	
How will your organization determine Y2K Readiness* for t systems listed in question 2? (Check all that apply.)	the Component test Simulation Outside testing Vendor verification Other				
7. How will the Y2K Readiness* of business systems outsour	rced by your organization be	determined	?		
If your organization has found a unique / creative solution (system problem, please first describe the problem and the	. •	,	business		

Business Systems

Have you encountered any Y2K business and would like to collaborate with others in the second s	s system problem(s) that are particularly difficult to resolve in resolving? If so, please describe:	
* Y2K Ready means a system or application suitable for continued use into the year 20		
10. Any comments? Enter below:		
Device/Component/system name: Test description:		
rest description.		
Test results:		
Comments:		
Comments.		

NERC Y2K ELECTRIC SYSTEM READINESS ASSESS

Database Stuff - for NERC use only

Version 3.1

Organizatio	on Inform	ation				
1. Date?				01/00/00		
2a. Org. ty	ype	IOU		0		
		FedAgcy		0		
		State		0		
		Muni		0		
		G&T		0		
		RuralCoop)	0		
		IPP		0		
	ISO	/Region		0		
		Other		0		
2b. Org. fun	ctions	ContrArea		0		
		Transmsn		0		
		Generatn		0		
	Regional	SecCoord		0		
		Distrbtn		0		
		Other		0		
2c. Size	System	PeakLoad			0	0
	NonNucl.	Capacity			0	0
	Nuclear	Capacity			0	0
3. NERC Re	egion?			0		
General Y2	K Plannir	ng				1
2.have a wr	itten plan?	Yes		0		
	-	In process		0		
		Unwritten		0		
		No		0		
2a. If No, in	tend to?		Yes	0		
			No	0		
			When	01/00/00		
3a. Report t	o a VP?		Yes	0		
-			No	0		
3b. Qtrly rpr	t to bd?		Yes	0		
			No	0		
4. Overall st	tatus	Inventory	Est Date	01/00/00		
		Inventory	% Cmplt		0	0
		Assess	Est Date	01/00/00		
		Assess	% Cmplt		0	0
		Rmd/Tst	Est Date	01/00/00		
		Rmd/Tst	% Cmplt		0	0
5. Potential	breakdow	n	Yes	0		
			No	0		
6a. Conting.	. prep?	Pwr syst	No start	0		
· ·		•	Started	0		
			Have plan	0		
			•			

	Blackstart	Tested No start Started Have plan	0 0 0	
	Safe shut	Started Have plan	0 0 0	
	Special op	Started Have plan	0 0 0	
	Staff&train	Started Have plan	0 0 0 0	
6b. Result	s to others?	Tested Yes No	0 0 0	
7. When re	ady? eneration Facilities	Date	01/00/00	
	Reactor controls	N/A	0	
Z.r (Gudy :	reactor controls		0	0
		A	0	0
		R		
	0-4		0	0
	Safe shutdown system		0	_
		1	0	0
		Α	0	0
		R	0	0
	Fuel handling and sto	r N/A	0	
		1	0	0
		Α	0	0
		R	0	0
	Turbine/generator sys	1 N/A	0	
		1	0	0
		A	0	0
		R	0	0
	Balance of plant - wat		0	Ū
	Dalarioo or plant - wat	1	0	0
		A	0	0
		R	0	0
	Environmental avetem		0	U
	Environmental system	_		0
		1	0	0
		A	0	0
	Flantwing a contract	R N/A	0	0
	Electrical systems, po	_	0	^
		1	0	0
		A	0	0
		R	0	0
	Data acquisition and o	N/A	0	
		I	0	0

```
0
                                                          0
                                Α
                                R
                                                          0
                                               0
          Voice communications N/A
                                               0
                                                          0
                                               0
                                Α
                                               0
                                                          0
                                R
                                               0
                                                          0
          Unit and station protec N/A
                                               0
                                                          0
                                               0
                                Α
                                               0
                                                          0
                                R
                                               0
                                                          0
3. % Ready by
                                                          0
                                  3Q98
                                  4Q98
                                  1Q99
                                  2Q99
                                  3Q99
                                  4Q99
4. Integrated test?
                                N/A
                                               0
                                Yes
                                               0
                                No
                                               0
5. Contingency planning?
                                Yes
                                               0
                                No
                                               0
6. How Measure
                     Component test
                                               0
                     Simulations
                                               0
                     Outside testing
                                               0
                     Vendor verification
                                               0
                     Other
                                               0
7. Single answer for telecom?
                                               0
Non-nuclear Generation Facilities
2. Are the 1Fuel supply and handl N/A
                                               0
                                                          0
                                               0
                                Α
                                               0
                                                          0
                                               0
                                                          0
          Boiler control and feec N/A
                                               0
                                                          0
                                               0
                                Α
                                               0
                                                          0
                                R
                                               0
                                                          0
          Turbine/generator syst N/A
                                               0
                                               0
                                                          0
                                Α
                                               0
                                                          0
                                               0
                                                          0
          Balance of plant water N/A
                                               0
                                                          0
                                               0
                                Α
                                               0
                                                          0
                                R
                                               0
                                                          0
          Water treatment syste N/A
                                               0
                                                          0
                                               0
                                Α
                                               0
                                                          0
                                R
                                               0
                                                          0
          Environmental system N/A
                                               0
                                               0
                                                          0
                                Α
                                               0
                                                          0
```

```
0
                                                0
           Electrical systems, po N/A
                                                0
                                                0
                                                           0
                                Α
                                                0
                                                           0
                                R
                                                           0
                                                0
           Data acquisition and cN/A
                                                0
                                                0
                                                           0
                                Α
                                                0
                                                           0
                                R
                                                0
                                                           0
           Voice communications N/A
                                                0
                                                0
                                                           0
                                Α
                                                0
                                                           0
                                R
                                                0
                                                           0
           Unit and station protec N/A
                                                0
                                                           0
                                                0
                                Α
                                                0
                                                           0
                                R
                                                0
                                                           0
3. What percentage of your missic
                                   3Q98
                                                           0
                                   4Q98
                                   1Q99
                                   2Q99
                                   3Q99
                                   4Q99
4. Integrated test?
                                                0
                                N/A
                                Yes
                                                0
                                No
                                                0
5. Contingency planning?
                                Yes
                                                0
                                No
                                                0
6. How Measure
                      Component test
                                                0
                      Simulations
                                                0
                      Outside testing
                                                0
                      Vendor verification
                                                0
                      Other
                                                0
7. Check this box if you are providing a single
                                                0
Energy Management Systems, SCADA
2. Are the following (mission-critical* facilities) Y2K ready?
           Control center comput N/A
                                                0
                                                           0
                                Α
                                                0
                                                           0
                                                0
                                                           0
           Data acquisition subsy N/A
                                                0
                                                           0
                                                0
                                Α
                                                0
                                                           0
                                R
                                                0
                                                           0
           UPS systems
                                N/A
                                                0
                                                           0
                                                0
                                Α
                                                0
                                                           0
                                R
                                                0
                                                           0
           Voice and data comm<sub>1</sub>N/A
                                                0
                                                0
                                                           0
                                Α
                                                0
                                                           0
```

```
0
                                                         0
          Remote terminal units N/A
                                              0
                                              0
                                                         0
                                Α
                                              0
                                                         0
                                R
                                                         0
                                              0
          Metering equipment syN/A
                                              0
                                              0
                                                         0
                               Α
                                              0
                                                         0
                                R
                                              0
                                                         0
          Backup control center N/A
                                              0
                                              0
                                                         0
                                Α
                                                         0
                                              0
                                R
                                                         0
                                              0
3. What percentage of your missi-
                                  3Q98
                                                         0
                                  4Q98
                                  1Q99
                                  2Q99
                                  3Q99
                                  4Q99
4. Have you completed necessary N/A
                                              0
                                Yes
                                              0
                               No
                                              0
5. Have you completed contingen Yes
                                              0
                               No
                                              0
6. How will your organ Component test
                                              0
                     Simulations
                                              0
                     Outside testing
                                              0
                     Vendor verification
                                              0
                     Other
                                              0
7. Check this box if you are providing a single
                                              0
Telecommunications Systems
2. Are the following mi Telephone N/A
                                              0
                                              0
                                                         0
                                Α
                                                         0
                                              0
                                R
                                              0
                                                         0
                     Microwave N/A
                                              0
                                                         0
                                              0
                               Α
                                              0
                                                         0
                                R
                                              0
                                                         0
                     Mobile radi N/A
                                              0
                                              0
                                                         0
                                Α
                                              0
                                                         0
                               R
                                              0
                                                         0
                     SCADA racN/A
                                              0
                                                         0
                                              0
                                Α
                                                         0
                                              0
                                R
                                              0
                                                         0
                     Data WAN, N/A
                                              0
                                              0
                                                         0
                                Α
                                              0
                                                         0
                               R
                                              0
                                                         0
```

Modems?	NI/A	0	
Woderns:	1	0	0
	A	0	0
	R	0	0
Network ed		0	U
Network et	. IV/A	0	0
	A		
	R	0	0
Fiber syste		0	0
Fiber syste		0	0
	A		
	R	0	0
Leased line		0	0
Leased line		0	^
	1	0	0
	A R	0	0
Dowerline		0	0
Power line	IN/A	0	_
	1	0	0
	A	0	0
Catallita	R	0	0
Satellite sy	/ IN/A	0	_
	1	0	0
	A R	0	0
Talasamm		0	0
Telecomm		0	_
	1	0	0
	A R	0	0
2. W/b at a annual and af		0	0
What percentage of your missi	3Q98 4Q98		0
	1Q99		
	2Q99		
	3Q99		
	4Q99		
4. Have you completed necessary		0	
+. Have you completed necessary	Yes	0	
	No	0	
5. Have you completed contingen		0	
o. Have you completed contingen	No	0	
6. How will your organization esta		0	
5. Flow will your organization esta	Simulation	0	
	Outside tes	0	
	Vendor vei	0	
	Other	0	
7. Check this box if you are provide		0	
Substation Controls, System P			,
2. Are the following mi Microproce) 0	
2. Are the following minimoroproce	, i #/ /\	0	0
	A	0	0
	R	0	_
Special pro		0	O
Special pro	. 13/7	U	

1	0	0
Α	0	0
R	0	0
Load shed N/A	0	
I	0	0
Α	0	0
R	0	0
Circuit brea N/A	0	
I	0	0
Α	0	0
R	0	0
LTC and r∈N/A	0	
1	0	0
Α	0	0
R	0	0
Recloser c ₁ N/A	0	
I	0	0
Α	0	0
R	0	0
Digital fault N/A	0	
I	0	0
Α	0	0
R	0	0
Terminal e N/A	0	
I	0	0
Α	0	0
R	0	0
Substation N/A	0	
1	0	0
A	0	0
R	0	0
Disturbanc N/A	0	_
I	0	0
A	0	0
R	0	0
Distribution facilities outside		
Transfer/re N/A	0	
I	0	0
A	0	0
R	0	0
Sectionaliz N/A	0	Ŭ
	0	0
A	0	0
R	0	0
Capacitor (N/A	0	J
J	0	0
A	0	0
R	0	0
Voltage reز N/A	0	J
Voltage Te(TV/A	0	0
A	0	0
Λ.	U	U

Data gathe	R N/A	0 0	0
Data gatrie			Λ
	•	0	0
	A	0	0
2.14"	R	0	0
3. What percentage of your mission			0
	4Q98		
	1Q99		
	2Q99		
	3Q99		
	4Q99		
4. Have you completed an integra	N/A	0	
, ,	Yes	0	
	No	0	
5. Have you completed contingen	Yes	0	
3	No	0	
6. How will your organization esta		0	
or rion min your organization oota	Simulation	0	
	Outside tes	0	
	Vendor vei	0	
	Other	0	
7. Check this box if you are provide			
7. Check this box if you are provided and pr	-	0	
IT Business Information System		0	
2. Are the f Customer Information		0	^
	l	0	0
	A	0	0
0.11.0	R	0	0
Call Center Systems	N/A	0	_
	1	0	0
	A	0	0
	R	0	0
Financial and Cost Ma	N/A	0	
	I	0	0
	Α	0	0
	R	0	0
Plant Maintenance Sy	:N/A	0	
	I	0	0
	Α	0	0
	R	0	0
Distributed Work Mana	iN/A	0	
	I	0	0
	Α	0	0
	R	0	0
Geographical Informat	N/A	0	
	I	0	0
	Α	0	0
	R	0	0
Accounts payable/pure	N/A	0	
	I	0	0
	Α	0	0
	R	0	0

Electronic Data Interch	N/A	0	
	Ī	0	0
	Α	0	0
	R	0	0
Transmission Work M	N/A	0	
	1	0	0
	Α	0	0
	R	0	0
Fixed Asset Systems	N/A	0	
•	1	0	0
	Α	0	0
	R	0	0
Security Systems (e.g	N/A	0	
	1	0	0
	Α	0	0
	R	0	0
Facility Operating Sys	N/A	0	
	I	0	0
	Α	0	0
	R	0	0
3. What percentage of the system	3 Q 98		0
	4Q98		
	1Q99		
	2Q99		
	3Q99		
	4Q99		
4. What percentage of the suppor	3Q98		0
	4Q98		
	1Q99		
	2Q99		
	3Q99		
	4Q99		
5. Have you completed necessary	N/A	0	
	Yes	0	
	No	0	
6. How will your organization dete		0	
	Simulation	0	
	Outside tes	0	
	Vendor vei	0	
	Other	0	

SMENT